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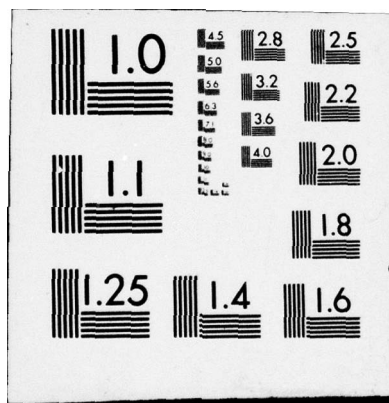
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ARMED SERVICES VOCATIONAL APTITUDE BATTERY (ASVAB)
FORM 5: HIGH SCHOOL NORMING AND STANDARDIZATION

JWK INTERNATIONAL CORPORATION, ANNANDALE, VIRGINIA

OCTOBER 1976

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**HUMAN
RESOURCES**

**ARMED SERVICES VOCATIONAL APTITUDE
BATTERY (ASVAB) FORM 5:
HIGH SCHOOL NORMING AND STANDARDIZATION**

By

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October 1976

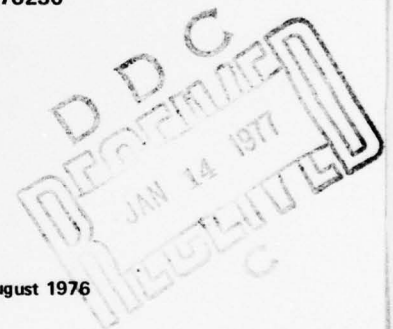
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This final report was submitted by JWK International, Incorporated, Annandale, Virginia 22003, under contract F41609-75-C-0044, project 7719, with Personnel Research Division, Air Force Human Resources Laboratory (AFSC), Lackland Air Force Base, Texas 78236. Dr. Malcolm James Ree, Selection and Classification Systems Branch, was the contract monitor.

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This technical report has been reviewed and is approved.

TYREE H. NEWTON, Colonel, USAF
Chief, Personnel Research Division

Approved for publication.

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20. ABSTRACT (Continue on reverse side if necessary and identify by block number) Form 5 of the Armed Services Vocational Aptitude Battery (ASVAB) was administered to over 35,000 male and female students in grade nine through twelve. The sample was selected to be representative of the students in the national high school population. Normative percentile tables were developed for each subtest and composite for each grade and sex.		

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PREFACE

This work was performed under project 7719, Air Force Personnel System Development on Selection, Assignment, Evaluation, Quality, Control, Retention, Promotion, and Utilization; Task 771910, Armed Forces Operational Selection and Classification Programs. The Technical Monitor for the project was Malcolm Ree.

The staff of the Armed Forces Vocational Testing Group, Randolph Air Force Base, Texas, were most helpful in connection with the project tasks. Most of the testing was accomplished by the Armed Forces Entrance and Examination Stations. In the final analysis, the success of the project was dependent upon the cooperation of many secondary schools throughout the United States.

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ARMED SERVICES VOCATIONAL APTITUDE
BATTERY (ASVAB) FORM 5:
HIGH SCHOOL NORMING AND STANDARDIZATION

I. INTRODUCTION

The fifth form of the Armed Services Vocational Aptitude Battery (ASVAB-5) is a significant revision and requires normative data based on a national high school sample.

The purposes of this study were to produce norms and to standardize the ASVAB-5 on a national sample of secondary school students.

II. PROCEDURE

The sample was intended to be a representation of the national high school population. The sample universe was the Office of Civil Rights (OCR) directory of schools (DHEW, 1972) reporting as of the beginning of the school year 1972-73, in compliance with Title VI of the 1964 Civil Rights Act. This directory contains information on the racial/ethnic composition of pupils and full-time classroom teachers in 8,056 school districts in the Continental United States, Alaska and the District of Columbia. Hawaii and the territories were not required to participate in the survey for school year 1972-73.

The OCR directory was itself a sample based upon district enrollments and represented 91.8 percent of the enrolled pupils in the United States.

The sample stratification variables were: geographic regions, ten zip code areas; size of student body, enrollment in grades 9 through 12; and proportion of black students enrolled.

The first sampling objective was to draw three districts from each of the strata defined by the intersection of the following criteria:

1. Zip code area: ten strata defined by the values of the first digit of the zip code (0-9).
2. School size: size 1, 0-500 pupils; size 2, 501-1000 pupils; size 3, over 1000 pupils.
3. Percent black enrollment: 0-20%, 21-40%, 41-60%, 61-80%, 81-100%.

Sampling procedure then entailed the selection of all schools in strata which contained less than four schools and selection of three schools for strata containing more than three schools, in the following manner: select the first school in the strata; select every (N/3)rd school until a total of three schools has been chosen, where N is the total number of schools in the strata.

Six-hundred-and-thirty-three (633) schools were selected on the basis of the stratification variables. Additionally, School Office of Education Identification Code, District Office of Education Identification Code, weight assigned school based on OCR sample and weight assigned school based on project sample were determined.

A total of fifty-six schools and seventy alternate schools was selected randomly from the results of the first stage sampling, using a table of random numbers. The large number of alternate schools was required because the geographical distribution of schools with varying proportions of black students is very uneven throughout the United States, and the participation of the individual schools was voluntary.

Table 1 shows the number of students sampled in each zip code area. Table 2 presents the sample of schools by zip code, size, and percent of black enrollment.

Table 1. Sample of Schools,
Total Students by Zip Code (N = 35,291)

Zip Code	Students Sampled
0	3194
1	3099
2	3847
3	3807
4	3370
5	5141
6	3223
7	3219
8	3268
9	<u>3123</u>
Total	35,291

Of the total 35,291 sample of students, 17,934 were males, 17,357 females. The number of blacks was 5,293; 2,689 males, 2,604 females.

Table 2. Sample of Schools by Zip Code, Size,
and Percent Black Enrollment (N = 56)

	0	1	2	3	Zip Codes					8	9	Totals
					4	5	6	7				
Total Schools	6	6	6	6	6	6	5	6	4	5	56	
Subtotals by												
Size 1	4	4	4	4	4	2	3	4	1	3	33	
Size 2	1	1	1	1	1	1	1	1	2	1	11	
Size 3	1	1	1	1	1	3	1	1	1	1	12	
Percent Black Enrollment												
0-20	1	2	1	2	1	2	1	1	1	0	12	
21-40	1	1	1	1	2	1	2	2	1	1	13	
41-60	2	1	2	1	1	1	1	1	1	2	13	
61-80	1	1	1	1	1	1	1	1	1	1	10	
81-100	1	1	1	1	1	1	0	1	0	1	8	

Test Administration

JWK International designed the answer sheet and produced an examiner's manual based upon standard ASVAB procedures. Project staff arranged for testing a particular school and in some cases actually administered the test. In most cases military testers from the appropriate Armed Forces Entrance and Examination Stations (AFEES) did the testing with materials furnished by JWK and in accordance with the requirements for standardization.

Each student was required to have parental approval and a copy of Privacy Act Notification, AF Form 1607, was furnished students and parents.

The actual test time for the twelve parts (1-12) required two hours and fifteen minutes. The time required to administer the test, from welcoming students and distributing test materials, through the collection of materials upon completion of Part 12, was usually around three hours. In most secondary schools, a three-hour block of time is difficult to schedule without cutting into lunch schedules. A split testing session necessitates the collection and redistribution of materials and is not desirable from the standpoint of overall test security. This norming project endeavored to accomplish the testing in one sitting, but it was not always possible.

In schools that had a functioning public address system and teachers acting as proctors in individual rooms, test administration involved considerable preparation beforehand to see that materials were distributed, but the testing ordinarily went well. In situations where the auditorium, cafeteria, library, and other rooms had to be used, the test situation was less ideal.

Scoring

Answer sheets were machine scored. Each answer sheet received manual scan and machine editing. Correct, incorrect and omitted responses for each test item were recorded.

Data Analysis

Answer sheets which did not indicate the grade or sex of the student were not included in the data analysis. In a few instances the supervisor in charge of testing at a particular school reported that in his opinion the testing situation was not satisfactory for the purposes of the project, and those schools were not included in the data analysis.

The Statistical Package for the Social Sciences (Nie, N.H., Hull, C.H., Jenkins, J.G., Steinbrenner, K., Bent, D.H., 1975) cumulative frequencies program was used to produce required normative data.

Each school's test results were weighted taking into account the OCR and the project sampling procedures. The OCR sample weight was a function of the size of the district in which the school was located. Table A1, page 42, shows the OCR weights assigned. The project sample weight was the ratio of the number of schools in the OCR sample universe, by stratum, to the number of schools sampled in that stratum. Table A2, pages 43-48, presents the project sample weights assigned. The total weight was the product of the OCR sample weight and the project sample weight. This produced percentile scores which are representative of the national population.

III. RESULTS AND DISCUSSION

Table 3, page 10, presents the parts and composites of the ASVAB-5 with the letter designations as used in this description of results; i.e., Part 1, General Information, is designated "GI," and Numerical Operations, "NO," and similarly. Table 4, page 11, shows the means and standard deviations for Parts 1-12 and the six composites, by grade and sex. Tables 5 through 22, pages 13-39, present the conversions from raw scores to percentiles for the twelve parts and six composites. Differences among zip code area means with respect to the mean of all zip code areas combined, did not warrant the compilation of normative data by zip code areas.

Means and standard deviations for the twelve parts and six composites of the ASVAB disclose, without any significant exception, expected results for a reliable instrument in a norming and standardization routine. The means reflect expected differences between males and females, and across school grades. Standard deviations show little variability between sex and across grades, although a typical finding on many standardized tests, slightly greater variability among males, is manifest. The increase of mean scores across grades is quite regular, especially for males. For females, this regularity is not so marked. The most striking exception occurs on Part 12, Automotive Information, on which test females show no improvement beyond the 10th Grade.

As might be expected in terms of results of similar standardized aptitude tests, females do better than males on Parts 2 and 3 of this test, Numerical Operations and Attention to Detail, in all grades. Females score slightly better than males during Grades 9 and 10 on two other tests: Word Knowledge and Mathematics Knowledge. But the general result is that males not only score higher than females, but their gain across grades is much greater than is the female gain.

The results of this project suggest that some of the tests are especially difficult for females: Mechanical Comprehension, Shop Information, and Automotive Information; and some tests would appear to be also quite difficult for males: General Information, Mechanical Comprehension, and Automotive Information.

Table 3. ASVAB-5 Parts and Composites

Part	Name	Number of Items
1	General Information (GI)	15
2	Numerical Operations (NO)	50
3	Attention to Detail (AD)	30
4	Word Knowledge (WK)	30
5	Arithmetic Reasoning (AR)	20
6	Space Perception (SP)	20
7	Mathematics Knowledge (MK)	20
8	Electronics Information (EI)	30
9	Mechanical Comprehension (MC)	20
10	General Science (GS)	20
11	Shop Information (SI)	20
12	Automotive Information (AI)	20
13	Classification Inventory (CI)	87 Not used in this study

Composites

Electronics/Electrical	(EL) = AR + EI	50 = 20 + 30
Communications	(CO) = AR + MC + SP	60 = 20 + 20 + 20
General/Technical	(GT) = WK + AR	50 = 30 + 20
Motor/Mechanical	(MM) = MC + AI + MK	60 = 20 + 20 + 20
General Mechanical	(GM) = SP + SI + AR	60 = 20 + 20 + 20
Clerical Administration	(CL) = WK + AD + NO	110 = 30 + 30 + 50

Table 4. Means and Standard Deviations (SD)
Parts 1-12 and Six Composites ASVAB-5 by Grade and Sex

Part	9th		10th		11th		12th		
	M	F	M	F	M	F	M	F	
1	7.0	6.4	8.0	7.1	8.5	7.2	9.5	7.4	Mean
GI	2.5	2.2	2.5	2.1	2.4	2.1	2.4	2.1	SD
2	24.8	30.8	27.3	31.4	29.8	33.4	32.1	33.1	Mean
NO	11.9	12.4	10.3	11.0	10.3	10.8	10.4	10.5	SD
3	14.7	16.9	15.0	16.9	15.7	17.8	15.9	17.0	Mean
AD	5.2	6.0	4.9	5.0	5.0	5.3	4.8	5.0	SD
4	10.5	10.9	13.7	14.0	15.9	14.9	18.8	17.5	Mean
WK	5.2	5.0	6.0	5.9	6.3	6.3	6.3	6.8	SD
5	7.6	7.5	9.1	8.9	10.2	9.4	11.9	9.9	Mean
AR	2.8	2.6	3.5	3.2	4.1	3.4	4.1	4.0	SD
6	7.8	7.4	9.1	8.8	10.7	9.2	11.7	9.8	Mean
SP	3.7	3.1	4.2	3.8	4.5	3.9	4.6	3.9	SD
7	7.1	7.6	9.4	10.3	11.1	10.9	12.5	11.4	Mean
MK	3.6	3.8	4.8	4.4	4.9	4.5	4.7	4.9	SD
8	11.0	10.2	13.0	11.9	14.6	12.0	17.1	13.0	Mean
EI	4.6	3.6	5.1	3.8	5.4	4.0	5.6	4.3	SD
9	6.1	5.2	8.2	6.3	9.3	6.3	10.3	6.8	Mean
MC	2.9	2.4	3.9	2.7	4.0	2.7	4.4	3.4	SD
10	6.8	7.0	8.7	8.5	9.6	8.5	11.1	9.5	Mean
GS	3.2	2.8	3.7	3.2	4.0	3.2	4.1	3.5	SD
11	6.8	6.5	9.5	7.4	10.6	7.8	12.3	8.3	Mean
SI	3.2	2.7	4.2	2.6	4.3	3.0	4.3	3.3	SD
12	5.3	4.5	6.7	5.1	7.6	5.1	9.3	5.1	Mean
AI	3.1	2.3	3.6	2.2	3.8	2.4	4.6	2.6	SD
C*	18.7	17.7	22.1	20.8	24.8	21.4	28.5	22.8	Mean
EL	6.1	5.0	7.7	6.1	8.2	6.3	9.0	7.2	SD
	21.6	20.1	26.4	23.9	30.1	24.8	33.7	26.5	Mean
CO	7.1	5.9	9.4	7.5	10.4	8.1	11.1	9.2	SD

*Composite

(Continued)

Table 4 (Continued)

Part	9th		10th		11th		12th		
	M	F	M	F	M	F	M	F	
GT	18.2	18.3	22.8	22.9	26.1	24.3	30.5	27.4	Mean
	6.9	6.6	8.6	8.1	9.2	8.5	9.2	9.7	SD
MM	18.5	17.3	24.2	21.7	28.0	22.3	32.1	23.3	Mean
	7.4	6.0	10.5	6.9	10.6	7.4	11.1	8.7	SD
GM	22.8	21.3	27.8	25.1	31.6	26.4	35.7	27.9	Mean
	7.5	6.2	9.6	7.2	10.2	8.0	10.5	8.5	SD
CL	50.0	58.4	56.0	62.4	61.8	66.4	66.8	67.6	Mean
	17.1	17.0	15.5	16.1	16.5	17.0	16.6	17.2	SD
	4,368	4,297	4,641	4,420	4,482	4,305	4,443	4,335	N

Table 5. ASVAB-5 Conversion Table
Raw Scores to Percentiles (N = 35,291)

Part 1 - General Information

Raw Score	9th		10th		11th		12th	
	M	F	M	F	M	F	M	F
00	01	01	01	01	01	01	01	01
01	02	01	01	01	01	01	01	01
02	04	03	01	02	01	01	01	01
03	09	09	03	05	02	02	01	04
04	17	19	07	12	05	12	02	09
05	27	34	15	23	10	23	05	16
06	42	50	27	40	17	37	11	31
07	57	67	43	56	33	55	19	49
08	70	82	61	72	51	74	31	69
09	83	94	73	89	65	87	46	85
10	91	97	84	96	79	94	65	94
11	98	99	92	99	90	98	78	97
12	99	99	96	99	96	99	89	99
13	99	99	99	99	99	99	97	99
14	99	99	99	99	99	99	99	99
15	99	99	99	99	99	99	99	99
N	4,368	4,297	4,641	4,420	4,482	4,305	4,443	4,335

Table 6. ASVAB-5 Conversion Table
Raw Scores to Percentiles (N = 35,291)

Part 2 - Numerical Operations

Raw Score	9th		10th		11th		12th	
	M	F	M	F	M	F	M	F
00	01	01	01	01	01	01	01	01
01	01	01	01	01	01	01	01	01
02	01	01	01	01	01	01	01	01
03	01	01	01	01	01	01	01	01
04	02	01	01	01	01	01	01	01
05	03	01	01	01	01	01	01	01
06	04	01	01	01	01	01	01	01
07	05	02	02	02	01	01	01	01
08	06	02	03	02	01	01	01	01
09	08	02	04	02	02	01	01	01
10	09	03	05	03	02	01	01	01
11	12	04	06	03	02	01	02	02
12	15	05	06	04	03	02	03	03
13	18	07	08	05	04	02	04	04
14	20	09	09	06	05	03	05	04
15	23	11	11	06	07	04	06	05
16	26	14	14	09	10	05	07	06
17	29	16	17	10	13	07	08	07
18	33	18	20	11	16	08	09	08
19	38	21	23	12	17	10	11	10
20	40	25	27	14	19	12	13	12
21	45	27	29	17	23	16	16	14
22	49	29	32	22	27	20	19	16
23	53	32	36	25	29	22	21	18
24	56	34	41	30	32	22	26	23
25	59	37	46	32	35	25	29	28
26	61	41	51	36	38	29	32	30
27	64	43	53	40	43	31	34	32
28	67	47	56	44	47	33	37	34
29	70	50	60	46	52	39	41	39
30	73	54	66	49	56	43	47	43

(Continued)

Table 6 (Continued)

Raw Score	9th		10th		11th		12th	
	M	F	M	F	M	F	M	F
31	75	56	68	53	60	48	51	46
32	76	58	71	57	63	52	53	49
33	77	60	74	60	68	54	56	52
34	79	63	79	62	70	57	59	54
35	80	65	81	65	73	59	63	59
36	81	66	83	68	75	61	67	61
37	81	68	84	70	76	63	71	64
38	83	69	86	71	77	65	73	68
39	84	70	87	74	78	66	76	69
40	85	71	88	75	79	68	77	71
41	86	72	89	76	81	70	79	74
42	87	74	90	79	84	71	81	76
43	87	75	91	82	86	74	82	78
44	89	76	92	83	88	76	83	81
45	92	78	92	85	90	80	86	84
46	94	82	94	87	93	83	87	86
47	95	87	95	89	95	87	89	89
48	97	91	97	93	97	91	92	95
49	99	96	98	97	99	95	96	97
50	99	99	99	99	99	99	99	99
N	4,368	4,297	4,641	4,420	4,482	4,305	4,443	4,335

Table 7. ASVAB-5 Conversion Table
Raw Scores to Percentiles (N = 35,291)

Part 3 - Attention to Detail

Raw Score	9th		10th		11th		12th	
	M	F	M	F	M	F	M	F
00	01	01	01	01	01	01	01	01
01	01	01	01	01	01	01	01	01
02	01	01	01	01	01	01	01	01
03	01	01	01	01	01	01	01	01
04	01	01	01	01	01	01	01	01
05	02	01	02	01	02	01	01	01
06	03	02	02	01	03	01	01	01
07	06	04	03	01	04	02	02	01
08	09	06	08	03	05	02	04	03
09	15	09	11	05	09	04	05	04
10	19	15	17	08	13	06	08	06
11	29	19	24	13	18	09	15	11
12	38	24	29	18	25	13	23	17
13	45	30	38	26	35	20	31	24
14	51	40	51	34	43	28	43	35
15	61	48	59	42	52	35	54	41
16	70	55	67	51	61	45	61	52
17	75	61	71	59	68	54	69	62
18	81	66	78	67	73	62	76	68
19	83	71	83	74	79	68	80	73
20	86	74	87	77	84	72	84	79
21	88	77	91	81	87	75	87	82
22	91	78	93	85	90	80	90	86
23	93	81	94	88	92	83	92	88
24	95	85	95	90	94	87	94	90
25	95	88	96	93	96	89	95	92
26	96	91	98	95	97	91	96	94
27	98	94	98	97	98	94	97	96
28	99	96	99	99	99	97	98	98
29	99	98	99	99	99	99	99	99
30	99	99	99	99	99	99	99	99
N	4,368	4,297	4,641	4,420	4,482	4,305	4,443	4,335

Table 8. ASVAB-5 Conversion Table
Raw Scores to Percentiles (N = 35,291)

Part 4 - Word Knowledge

Raw Score	9th		10th		11th		12th	
	M	F	M	F	M	F	M	F
00	01	01	01	01	01	01	01	01
01	02	01	01	01	01	01	01	01
02	03	02	01	01	01	01	01	01
03	05	04	03	01	01	01	01	01
04	08	07	05	02	01	03	01	02
05	17	12	07	04	03	03	02	03
06	23	21	10	07	06	07	04	06
07	28	27	14	12	10	10	05	08
08	38	36	19	18	14	14	07	12
09	50	43	27	25	18	19	09	16
10	57	49	33	34	22	27	10	20
11	64	60	41	38	29	36	15	24
12	70	67	46	45	35	42	21	28
13	75	73	55	53	40	46	23	30
14	79	78	59	58	45	53	26	33
15	82	83	63	64	50	57	29	36
16	87	87	68	69	55	64	33	41
17	89	89	73	72	59	68	40	47
18	91	91	79	77	65	73	46	52
19	92	93	84	81	71	76	50	56
20	95	96	86	85	75	80	55	63
21	96	97	88	88	78	83	63	68
22	98	98	91	89	80	85	68	73
23	99	98	93	91	86	88	73	79
24	99	99	95	93	90	91	79	83
25	99	99	96	95	93	93	85	87
26	99	99	98	97	95	95	89	91
27	99	99	98	98	97	97	93	95
28	99	99	99	99	98	98	96	97
29	99	99	99	99	99	99	98	99
30	99	99	99	99	99	99	99	99
N	4,368	4,297	4,641	4,420	4,482	4,305	4,443	4,335

Table 9. ASVAB-5 Conversion Table
Raw Scores to Percentiles (N = 35,291)

Part 5 - Arithmetic Reasoning

Raw Score	9th		10th		11th		12th	
	M	F	M	F	M	F	M	F
00	01	01	01	01	01	01	01	01
01	01	01	01	01	01	01	01	01
02	02	01	01	01	01	01	01	01
03	04	02	01	01	01	01	01	03
04	11	09	04	05	05	03	03	07
05	21	21	11	11	10	10	05	13
06	34	38	25	21	18	22	09	20
07	50	54	37	38	30	34	16	30
08	65	72	52	50	40	48	22	38
09	78	83	64	65	50	57	31	51
10	88	89	73	76	60	68	42	62
11	92	92	78	82	68	75	49	70
12	94	94	82	88	73	81	59	75
13	98	98	89	92	78	85	66	82
14	98	99	91	93	82	91	72	85
15	99	99	93	95	87	94	78	90
16	99	99	94	96	91	97	84	93
17	99	99	96	97	94	98	88	95
18	99	99	98	99	96	99	93	97
19	99	99	99	99	99	99	97	98
20	99	99	99	99	99	99	99	99
N	4,368	4,297	4,641	4,420	4,482	4,305	4,443	4,335

Table 10. ASVAB-5 Conversion Table
Raw Scores to Percentiles (N = 35,291)

Part 6 - Space Perception

Raw Score	9th		10th		11th		12th	
	M	F	M	F	M	F	M	F
00	01	01	01	01	01	01	01	01
01	02	02	01	01	01	01	01	01
02	03	05	02	01	01	02	02	02
03	07	08	07	04	04	04	03	04
04	16	15	12	11	08	08	07	07
05	29	27	20	21	12	18	11	10
06	39	41	29	31	21	29	15	21
07	50	55	38	44	29	40	19	33
08	65	67	48	53	36	50	27	43
09	74	78	59	62	43	57	33	53
10	81	84	68	71	52	64	40	61
11	86	91	74	79	59	71	46	68
12	91	95	80	85	66	81	55	74
13	92	96	85	88	71	85	62	79
14	94	98	88	91	77	89	69	85
15	95	98	90	94	82	93	77	91
16	96	99	93	95	88	95	82	95
17	97	99	95	96	92	97	87	98
18	99	99	98	98	94	99	92	99
19	99	99	99	99	98	99	97	99
20	99	99	99	99	99	99	99	99
N	4,368	4,297	4,641	4,420	4,482	4,305	4,443	4,335

Table 11. ASVAB-5 Conversion Table
Raw Scores to Percentiles (N = 35,291)

Part 7 - Mathematics Knowledge

Raw Score	9th		10th		11th		12th	
	M	F	M	F	M	F	M	F
00	02	02	01	01	01	01	01	01
01	03	03	01	01	01	01	01	01
02	08	08	03	01	02	02	01	02
03	15	13	08	04	03	03	02	05
04	24	19	14	09	08	06	06	09
05	35	30	26	14	15	13	08	14
06	50	43	37	21	22	21	11	20
07	61	54	44	30	30	26	19	26
08	69	63	51	30	36	33	23	33
09	76	73	55	48	42	39	30	38
10	83	79	62	57	47	49	37	42
11	87	85	67	61	52	55	43	48
12	91	89	72	69	60	62	48	57
13	94	93	76	73	64	69	54	63
14	96	95	82	78	71	77	62	68
15	98	96	86	83	77	82	69	75
16	99	98	91	90	82	87	75	82
17	99	99	93	95	87	91	81	88
18	99	99	96	98	92	95	87	93
19	99	99	98	99	98	99	93	98
20	99	99	99	99	99	99	99	99
N	4,368	4,297	4,641	4,420	4,482	4,305	4,443	4,335

Table 12. ASVAB-5 Conversion Table
Raw Scores to Percentiles (N = 35,291)

Part 8 - Electronics Information

Raw Score	9th		10th		11th		12th	
	M	F	M	F	M	F	M	F
00	01	01	01	01	01	01	01	01
01	02	02	01	01	01	01	01	01
02	02	02	01	01	01	01	01	01
03	03	04	01	01	01	01	01	02
04	05	05	02	01	01	02	01	02
05	07	08	04	03	01	04	02	03
06	14	12	07	06	03	08	02	04
07	20	19	12	10	09	12	05	09
08	29	31	18	17	12	17	06	13
09	41	42	26	25	15	24	08	20
10	50	53	37	36	21	37	12	29
11	60	64	44	47	32	46	16	36
12	68	76	52	61	42	60	20	46
13	74	84	59	72	48	67	27	58
14	81	90	66	77	55	77	35	66
15	84	93	70	85	60	82	43	74
16	88	96	76	89	67	87	50	81
17	92	98	81	92	73	91	55	85
18	94	99	84	94	76	94	60	89
19	94	99	88	96	80	96	66	93
20	97	99	90	98	85	97	70	96
21	98	99	93	99	88	98	76	97
22	98	99	94	99	90	99	81	99
23	99	99	97	99	92	99	84	99
24	99	99	98	99	94	99	89	99
25	99	99	99	99	96	99	92	99
26	99	99	99	99	98	99	95	99
27	99	99	99	99	99	99	97	99
28	99	99	99	99	99	99	99	99
29	99	99	99	99	99	99	99	99
30	99	99	99	99	99	99	99	99
N	4,368	4,297	4,641	4,420	4,482	4,305	4,443	4,335

Table 13. ASVAB-5 Conversion Table
Raw Scores to Percentiles (N = 35,291)

Part 9 - Mechanical Comprehension								
Raw Score	9th		10th		11th		12th	
	M	F	M	F	M	F	M	F
00	01	02	01	01	01	01	01	02
01	02	05	01	02	01	01	01	04
02	06	11	03	06	01	06	02	09
03	17	23	08	14	03	15	06	15
04	29	38	16	26	10	27	09	23
05	48	56	25	43	18	41	14	36
06	62	72	37	59	27	56	22	51
07	74	83	50	70	38	72	31	63
08	82	93	61	82	49	84	39	73
09	88	95	70	89	60	89	49	83
10	93	99	78	93	66	93	55	87
11	96	99	81	95	72	96	61	91
12	97	99	84	97	77	97	68	93
13	98	99	89	99	82	98	73	95
14	98	99	91	99	87	99	79	96
15	99	99	94	99	91	99	85	98
16	99	99	96	99	94	99	89	99
17	99	99	98	99	96	99	94	99
18	99	99	99	99	99	99	98	99
19	99	99	99	99	99	99	99	99
20	99	99	99	99	99	99	99	99
N	4,368	4,297	4,641	4,420	4,482	4,305	4,443	4,335

Table 14. ASVAB-5 Conversion Table
Raw Scores to Percentiles (N = 35,291)

Part 10 - General Science

Raw Score	9th		10th		11th		12th	
	M	F	M	F	M	F	M	F
00	02	01	01	01	01	01	01	01
01	04	02	01	01	02	01	01	01
02	07	05	02	01	04	02	01	02
03	14	09	07	03	05	05	03	04
04	25	16	14	09	09	10	05	07
05	34	28	22	17	16	18	10	11
06	47	45	31	26	24	30	14	21
07	61	58	38	40	33	40	19	28
08	74	71	50	54	42	52	27	41
09	83	82	59	68	53	64	38	51
10	88	89	71	76	61	73	45	60
11	92	93	80	83	67	81	55	68
12	95	97	86	89	73	88	63	79
13	97	98	89	91	80	94	72	87
14	98	99	94	94	87	96	78	92
15	99	99	95	97	93	98	85	95
16	99	99	97	98	95	99	90	98
17	99	99	98	99	98	99	92	99
18	99	99	99	99	99	99	97	99
19	99	99	99	99	99	99	99	99
20	99	99	99	99	99	99	99	99
N	4,368	4,297	4,641	4,420	4,482	4,305	4,443	4,335

Table 15. ASVAB-5 Conversion Table
Raw Scores to Percentiles (N = 35,291)

Part 11 - Shop Information

Raw Score	9th		10th		11th		12th	
	M	F	M	F	M	F	M	F
00	02	02	01	01	01	01	01	01
01	04	03	02	01	02	01	01	02
02	07	07	04	02	03	04	02	04
03	14	13	07	07	05	09	04	07
04	25	25	12	14	08	13	06	14
05	34	35	18	25	12	22	07	20
06	47	50	26	36	17	31	09	29
07	61	64	34	50	23	47	14	39
08	74	77	42	66	31	62	19	52
09	83	87	50	79	39	72	24	64
10	88	94	60	89	50	83	31	74
11	92	96	70	95	58	91	42	85
12	95	98	76	98	65	94	51	91
13	97	99	81	99	74	97	59	96
14	98	99	87	99	81	98	66	97
15	99	99	91	99	86	99	74	98
16	99	99	94	99	91	99	82	99
17	99	99	96	99	94	99	88	99
18	99	99	99	99	97	99	92	99
19	99	99	99	99	99	99	97	99
20	99	99	99	99	99	99	99	99
N	4,368	4,297	4,641	4,420	4,482	4,305	4,443	4,335

Table 16. ASVA-5 Conversion Table
Raw Scores to Percentiles (N = 35,291)

Part 12 - Automotive Information

Raw Score	9th		10th		11th		12th	
	M	F	M	F	M	F	M	F
00	04	04	02	01	02	02	01	04
01	09	10	05	03	04	08	02	09
02	18	19	08	10	06	13	05	18
03	27	33	16	24	12	23	09	27
04	39	50	31	42	22	38	17	41
05	55	68	41	59	31	58	23	56
06	71	82	54	75	41	73	30	72
07	84	91	66	86	57	84	37	82
08	89	96	73	94	65	93	46	92
09	92	98	80	98	73	98	55	97
10	95	99	85	99	82	99	64	98
11	96	99	88	99	85	99	69	99
12	97	99	93	99	88	99	75	99
13	98	99	96	99	92	99	81	99
14	98	99	97	99	95	99	86	99
15	99	99	98	99	96	99	88	99
16	99	99	98	99	97	99	91	99
17	99	99	99	99	98	99	94	99
18	99	99	99	99	99	99	97	99
19	99	99	99	99	99	99	99	99
20	99	99	99	99	99	99	99	99
N	4,368	4,297	4,641	4,420	4,482	4,305	4,443	4,335

Table 17. ASVAB-5 Conversion Table
Raw Scores to Percentiles (N = 35,291)

Composite - Electronics/Electrical

Raw Score	9th		10th		11th		12th	
	M	F	M	F	M	F	M	F
00	01	01	01	01	01	01	01	01
01	01	01	01	01	01	01	01	01
02	01	01	01	01	01	01	01	01
03	01	01	01	01	01	01	01	01
04	01	01	01	01	01	01	01	01
05	01	01	01	01	01	01	01	01
06	02	02	01	01	01	01	01	01
07	02	02	01	01	01	01	01	01
08	03	03	01	01	01	01	01	01
09	03	04	01	01	01	01	01	01
10	06	05	02	01	01	02	02	02
11	08	07	05	03	01	04	02	03
12	12	10	07	05	03	07	03	05
13	15	16	09	08	04	10	05	08
14	23	24	14	13	08	13	07	11
15	33	32	20	18	11	16	08	14
16	39	41	24	23	14	20	09	20
17	46	53	30	29	17	27	11	24
18	55	62	38	38	22	35	13	28
19	63	70	44	48	31	42	15	34
20	67	75	49	54	38	49	18	41
21	71	81	52	61	42	55	21	45
22	76	86	57	66	47	62	25	52
23	82	89	64	71	52	67	32	56
24	86	91	70	77	57	72	36	62
25	88	93	73	83	61	77	40	68
26	89	95	76	86	64	80	43	73
27	92	97	78	88	68	85	48	76
28	94	98	80	91	71	88	52	79
29	94	99	83	93	73	89	56	84
30	96	99	85	94	75	91	61	85

(Continued)

Table 17 (Continued)

Raw Score	9th		10th		11th		12th	
	M	F	M	F	M	F	M	F
31	96	99	86	94	77	92	65	88
32	96	99	88	95	79	94	68	90
33	98	99	89	96	81	95	71	92
34	98	99	91	96	83	97	73	94
35	99	99	93	97	87	97	76	95
36	99	99	95	97	89	97	79	96
37	99	99	96	98	90	98	83	96
38	99	99	97	98	91	99	86	97
39	99	99	97	99	93	99	88	98
40	99	99	98	99	95	99	89	99
41	99	99	98	99	97	99	91	99
42	99	99	99	99	99	99	93	99
43	99	99	99	99	99	99	94	99
44	99	99	99	99	99	99	95	99
45	99	99	99	99	99	99	97	99
46	99	99	99	99	99	99	98	99
47	99	99	99	99	99	99	99	99
48	99	99	99	99	99	99	99	99
49	99	99	99	99	99	99	99	99
50	99	99	99	99	99	99	99	99
N	4,368	4,297	4,641	4,420	4,482	4,305	4,443	4,335

Table 18. ASVAB-5 Conversion Table
Raw Scores to Percentiles (N = 35,291)

Composite - Communications								
Raw Score	9th		10th		11th		12th	
	M	F	M	F	M	F	M	F
00	01	01	01	01	01	01	01	01
01	01	01	01	01	01	01	01	01
02	01	01	01	01	01	01	01	01
03	01	01	01	01	01	01	01	01
04	01	01	01	01	01	01	01	01
05	01	01	01	01	01	01	01	01
06	01	01	01	01	01	01	01	01
07	01	02	01	01	01	01	01	01
08	01	02	01	01	01	01	01	01
09	02	02	01	01	01	01	01	01
10	03	03	01	01	01	01	01	01
11	04	04	01	01	01	01	01	02
12	06	06	01	03	01	01	02	03
13	08	08	02	05	01	03	02	05
14	11	11	04	06	02	06	03	07
15	14	19	09	09	04	10	04	08
16	20	24	14	13	07	14	06	10
17	28	32	17	16	09	16	07	14
18	37	39	20	20	12	22	08	17
19	45	49	25	27	17	29	09	24
20	52	57	29	34	20	35	12	28
21	58	66	36	43	24	41	16	33
22	62	72	39	50	28	46	18	39
23	66	76	43	57	32	51	20	45
24	70	81	49	61	34	58	23	47
25	74	85	56	66	37	61	26	53
26	79	88	61	72	43	64	28	58
27	83	91	64	75	50	68	31	61
28	87	92	67	79	52	71	33	64
29	89	95	70	82	55	74	37	68
30	91	96	73	85	58	78	41	73

(Continued)

Table 18 (Continued)

Raw Score	9th		10th		11th		12th	
	M	F	M	F	M	F	M	F
31	92	97	75	87	60	81	46	75
32	92	98	77	88	62	83	50	78
33	94	98	79	89	64	85	52	80
34	94	98	81	91	66	86	57	82
35	95	99	82	92	69	87	59	83
36	96	99	83	92	72	89	61	85
37	97	99	84	93	76	91	62	87
38	97	99	86	94	79	93	65	88
39	98	99	88	94	81	94	68	89
40	98	99	89	96	82	95	71	91
41	99	99	90	97	83	97	73	92
42	99	99	91	98	85	97	76	93
43	99	99	93	98	87	98	77	94
44	99	99	94	99	88	98	80	95
45	99	99	95	99	90	99	82	96
46	99	99	96	99	91	99	84	96
47	99	99	97	99	93	99	86	97
48	99	99	98	99	94	99	88	97
49	99	99	98	99	95	99	91	98
50	99	99	99	99	96	99	94	98
51	99	99	99	99	97	99	94	99
52	99	99	99	99	98	99	95	99
53	99	99	99	99	98	99	96	99
54	99	99	99	99	99	99	97	99
55	99	99	99	99	99	99	98	99
56	99	99	99	99	99	99	99	99
57	99	99	99	99	99	99	99	99
58	99	99	99	99	99	99	99	99
59	99	99	99	99	99	99	99	99
60	99	99	99	99	99	99	99	99
N	4,368	4,297	4,641	4,420	4,482	4,305	4,443	4,335

Table 19. ASVAB-5 Conversion Table
Raw Scores to Percentiles (N = 35,291)

Composite - General/Technical

Raw Score	9th		10th		11th		12th	
	M	F	M	F	M	F	M	F
00	01	01	01	01	01	01	01	01
01	01	01	01	01	01	01	01	01
02	01	01	01	01	01	01	01	01
03	01	01	01	01	01	01	01	01
04	01	01	01	01	01	01	01	01
05	02	01	01	01	01	01	01	01
06	02	02	01	01	01	01	01	01
07	03	02	01	01	01	01	01	01
08	04	03	01	01	01	01	01	01
09	07	05	02	01	01	02	01	01
10	10	08	03	01	01	03	01	01
11	13	12	06	04	01	05	01	02
12	18	17	08	07	03	06	01	05
13	26	22	11	10	05	07	02	07
14	33	29	14	14	09	09	03	10
15	39	38	20	17	13	11	05	13
16	45	44	24	23	16	17	08	16
17	52	51	29	29	21	22	11	18
18	59	56	38	33	25	29	13	23
19	66	63	44	38	30	34	14	25
20	73	69	48	44	33	38	16	29
21	75	74	53	50	38	44	20	32
22	77	77	56	55	41	49	23	33
23	80	82	60	59	45	54	26	37
24	83	85	64	65	49	57	28	42
25	84	88	66	69	53	59	31	43
26	87	91	69	72	57	63	34	45
27	88	92	74	75	59	67	38	49
28	90	92	76	77	61	71	40	53
29	91	93	78	80	63	74	43	58
30	94	93	80	82	65	77	46	62

(Continued)

Table 19 (Continued)

Raw Score	9th		10th		11th		12th	
	M	F	M	F	M	F	M	F
31	95	95	83	84	69	80	51	66
32	96	96	85	86	72	82	55	69
33	97	97	87	89	76	84	60	74
34	97	97	88	90	79	86	65	76
35	99	98	90	92	81	88	69	78
36	99	98	92	93	83	89	73	81
37	99	99	93	94	86	91	76	83
38	99	99	95	95	87	93	78	86
39	99	99	95	95	89	95	80	88
40	99	99	96	96	91	96	84	90
41	99	99	97	96	93	97	87	92
42	99	99	97	97	95	98	89	93
43	99	99	98	98	97	98	92	94
44	99	99	99	99	98	99	93	95
45	99	99	99	99	99	99	96	96
46	99	99	99	99	99	99	97	97
47	99	99	99	99	99	99	99	99
48	99	99	99	99	99	99	99	99
49	99	99	99	99	99	99	99	99
50	99	99	99	99	99	99	99	99
N	4,368	4,297	4,641	4,420	4,482	4,305	4,443	4,335

Table 20. ASVAB-5 Conversion Table
Raw Scores to Percentiles (N = 35,291)

Composite - Motor/Mechanical								
Raw Score	9th		10th		11th		12th	
	M	F	M	F	M	F	M	F
00	01	01	01	01	01	01	01	01
01	01	01	01	01	01	01	01	01
02	01	01	01	01	01	01	01	01
03	01	01	01	01	01	01	01	01
04	01	02	01	01	01	01	01	01
05	02	02	01	01	01	01	01	01
06	03	02	01	01	01	01	01	01
07	03	04	02	01	01	02	01	01
08	04	05	03	01	01	02	01	03
09	06	08	04	02	01	03	01	04
10	09	11	06	02	01	03	01	06
11	12	12	07	03	02	04	01	08
12	18	18	09	05	03	06	02	10
13	23	21	13	09	04	08	02	14
14	29	28	17	14	06	11	04	18
15	37	35	21	19	09	15	06	20
16	44	46	25	24	12	22	08	23
17	49	55	29	30	17	27	09	27
18	57	63	33	36	22	35	11	32
19	64	69	37	42	27	40	14	36
20	68	74	42	48	32	44	16	40
21	73	79	47	56	35	50	19	45
22	76	85	50	59	38	55	21	48
23	82	89	54	63	40	61	25	52
24	85	90	58	68	43	64	29	55
25	86	93	62	73	46	69	32	59
26	88	95	65	77	49	73	35	65
27	90	97	69	80	52	77	38	68
28	92	97	71	84	56	80	41	71
29	93	98	74	87	59	84	44	75
30	94	98	76	90	62	87	48	79

(Continued)

Table 20 (Continued)

Raw Score	9th		10th		11th		12th	
	M	F	M	F	M	F	M	F
31	95	99	78	91	65	89	51	83
32	95	99	79	92	69	91	56	86
33	96	99	81	94	71	93	58	87
34	96	99	83	96	73	95	61	90
35	96	99	84	97	77	97	62	91
36	97	99	86	98	78	97	64	94
37	97	99	87	98	80	98	66	95
38	98	99	88	99	82	98	69	95
39	98	99	89	99	83	98	72	97
40	98	99	91	99	86	98	75	98
41	99	99	92	99	87	98	78	98
42	99	99	93	99	89	99	80	98
43	99	99	94	99	89	99	83	98
44	99	99	94	99	91	99	85	99
45	99	99	95	99	92	99	87	99
46	99	99	96	99	93	99	88	99
47	99	99	97	99	94	99	90	99
48	99	99	98	99	96	99	92	99
49	99	99	98	99	97	99	93	99
50	99	99	99	99	98	99	94	99
51	99	99	99	99	98	99	95	99
52	99	99	99	99	99	99	96	99
53	99	99	99	99	99	99	97	99
54	99	99	99	99	99	99	98	99
55	99	99	99	99	99	99	98	99
56	99	99	99	99	99	99	99	99
57	99	99	99	99	99	99	99	99
58	99	99	99	99	99	99	99	99
59	99	99	99	99	99	99	99	99
60	99	99	99	99	99	99	99	99
N	4,368	4,297	4,641	4,420	4,482	4,305	4,443	4,335

Table 21. ASVAB-5 Conversion Table
Raw Scores to Percentiles (N = 35,291)

Composite - General Mechanical

Raw Score	9th		10th		11th		12th	
	M	F	M	F	M	F	M	F
00	01	01	01	01	01	01	01	01
01	01	01	01	01	01	01	01	01
02	01	01	01	01	01	01	01	01
03	01	01	01	01	01	01	01	01
04	01	01	01	01	01	01	01	01
05	01	01	01	01	01	01	01	01
06	01	01	01	01	01	01	01	01
07	01	01	01	01	01	01	01	01
08	02	02	01	01	01	01	01	01
09	02	03	01	01	01	01	01	01
10	03	03	01	01	01	01	01	01
11	04	04	01	01	01	01	01	01
12	05	05	02	02	01	01	01	02
13	06	06	03	03	02	01	02	04
14	09	08	04	04	02	03	03	05
15	13	13	07	05	04	06	03	05
16	18	18	11	07	04	08	04	07
17	23	24	15	11	06	12	05	08
18	28	31	18	14	07	16	05	12
19	36	39	20	20	09	20	06	16
20	42	49	24	27	12	23	07	20
21	48	57	28	34	16	28	08	23
22	53	66	31	39	19	35	10	27
23	57	70	36	46	22	43	12	31
24	63	75	41	54	26	49	14	37
25	68	79	44	59	33	54	17	41
26	73	83	50	65	38	57	19	45
27	78	86	56	69	42	60	20	51
28	80	89	60	74	45	65	23	55
29	85	91	64	79	48	68	28	60
30	86	94	66	81	51	70	34	65

(Continued)

Table 21 (Continued)

Raw Score	9th		10th		11th		12th	
	M	F	M	F	M	F	M	F
31	88	95	69	84	55	75	37	68
32	90	96	71	86	58	78	40	73
33	92	97	74	89	61	80	46	75
34	93	97	75	90	64	82	50	80
35	94	98	78	91	67	85	52	83
36	95	98	80	92	69	87	55	85
37	95	99	82	93	72	90	57	87
38	96	99	84	94	74	92	59	90
39	97	99	86	95	76	93	63	91
40	97	99	88	96	78	95	67	93
41	98	99	89	97	80	97	70	94
42	99	99	91	98	82	97	73	95
43	99	99	93	98	84	98	75	95
44	99	99	94	99	87	98	77	97
45	99	99	95	99	89	98	79	97
46	99	99	96	99	90	98	82	97
47	99	99	97	99	92	99	85	98
48	99	99	97	99	94	99	87	98
49	99	99	98	99	95	99	89	98
50	99	99	98	99	95	99	91	99
51	99	99	99	99	96	99	93	99
52	99	99	99	99	97	99	95	99
53	99	99	99	99	99	99	96	99
54	99	99	99	99	99	99	97	99
55	99	99	99	99	99	99	98	99
56	99	99	99	99	99	99	99	99
57	99	99	99	99	99	99	99	99
58	99	99	99	99	99	99	99	99
59	99	99	99	99	99	99	99	99
60	99	99	99	99	99	99	99	99
N	4,368	4,297	4,641	4,420	4,482	4,305	4,443	4,335

Table 22.—ASVAB-5 Conversion Table
Raw Scores to Percentiles (N = 35,291)

Composite - Clerical Administrative								
Raw Score	9th		10th		11th		12th	
	M	F	M	F	M	F	M	F
00	01	01	01	01	01	01	01	01
01	01	01	01	01	01	01	01	01
02	01	01	01	01	01	01	01	01
03	01	01	01	01	01	01	01	01
04	01	01	01	01	01	01	01	01
05	01	01	01	01	01	01	01	01
06	01	01	01	01	01	01	01	01
07	01	01	01	01	01	01	01	01
08	01	01	01	01	01	01	01	01
09	01	01	01	01	01	01	01	01
10	01	01	01	01	01	01	01	01
11	01	01	01	01	01	01	01	01
12	01	01	01	01	01	01	01	01
13	01	01	01	01	01	01	01	01
14	01	01	01	01	01	01	01	01
15	02	01	01	01	01	01	01	01
16	02	01	01	01	01	01	01	01
17	03	01	01	01	01	01	01	01
18	03	01	01	01	01	01	01	01
19	03	01	01	01	01	01	01	01
20	04	01	01	01	01	01	01	01
21	04	01	02	01	01	01	01	01
22	04	02	02	01	01	01	01	01
23	05	02	02	01	01	01	01	01
24	05	02	02	01	01	01	01	01
25	05	02	03	01	01	01	01	01
26	06	03	03	01	01	01	01	01
27	08	03	03	01	01	01	01	02
28	10	03	04	01	01	01	01	02
29	11	04	04	02	02	01	01	02
30	13	04	04	02	02	01	02	03

(Continued)

Table 22 (Continued)

Raw Score	9th		10th		11th		12th	
	M	F	M	F	M	F	M	F
31	14	06	04	02	02	01	02	03
32	15	08	05	03	02	02	02	03
33	16	09	06	03	03	02	02	04
34	18	09	07	03	03	02	03	04
35	20	11	08	04	04	02	03	04
36	21	13	10	04	05	03	04	05
37	24	13	11	05	06	03	04	05
38	26	14	13	07	07	03	05	05
39	28	17	15	08	08	04	05	06
40	30	18	15	09	10	05	05	06
41	32	19	17	10	12	06	06	07
42	35	21	19	11	13	08	06	08
43	37	23	21	13	15	10	07	09
44	39	24	22	14	16	10	08	09
45	41	25	25	16	18	11	09	10
46	43	26	29	18	19	12	11	12
47	46	29	31	19	20	14	13	13
48	48	30	33	21	21	15	14	14
49	50	33	36	22	23	17	15	15
50	53	34	38	24	25	19	16	16
51	56	37	40	25	27	21	17	17
52	59	39	41	28	29	23	19	18
53	61	43	43	30	32	25	21	20
54	63	46	44	32	34	27	23	22
55	65	46	47	34	36	29	25	24
56	68	48	50	37	38	32	27	26
57	69	50	53	39	41	33	29	28
58	70	52	57	42	43	34	31	30
59	72	55	59	44	45	36	33	32
60	74	56	60	47	46	38	35	34

(Continued)

Table 22 (Continued)

Raw Score	9th		10th		11th		12th	
	M	F	M	F	M	F	M	F
61	76	58	63	50	48	41	37	36
62	77	59	66	52	52	45	39	37
63	79	60	69	54	54	47	41	39
64	80	61	71	56	57	49	43	41
65	81	63	74	58	59	51	45	42
66	82	64	77	59	62	51	48	44
67	84	66	78	61	65	52	50	46
68	85	67	79	64	68	53	53	48
69	86	70	80	66	69	55	56	50
70	88	72	82	67	71	57	58	52
71	89	74	83	70	73	59	61	55
72	90	75	86	73	75	61	65	57
73	90	78	87	74	78	63	67	59
74	91	78	88	75	79	65	70	62
75	92	79	89	76	81	67	73	64
76	92	80	90	77	82	69	75	66
77	93	81	92	79	82	70	76	69
78	93	84	93	80	83	72	77	72
79	94	85	93	82	84	73	78	75
80	95	88	93	83	84	75	79	77
81	95	90	94	85	85	77	81	79
82	96	91	95	87	86	80	82	81
83	97	92	96	90	88	82	83	83
84	97	92	97	91	89	84	84	84
85	97	94	97	93	90	86	85	86
86	98	95	98	94	91	87	86	88
87	98	96	98	95	92	89	88	89
88	99	96	98	96	94	90	89	90
89	99	97	99	97	96	91	90	91
90	99	98	99	99	96	92	91	91

(Continued)

Table 22 (Continued)

Raw Score	9th		10th		11th		12th	
	M	F	M	F	M	F	M	F
91	99	98	99	99	97	94	92	92
92	99	99	99	99	97	95	93	93
93	99	99	99	99	97	96	94	94
94	99	99	99	99	98	96	95	95
95	99	99	99	99	98	97	96	96
96	99	99	99	99	99	97	97	97
97	99	99	99	99	99	98	98	97
98	99	99	99	99	99	99	98	98
99	99	99	99	99	99	99	99	99
100	99	99	99	99	99	99	99	99
101	99	99	99	99	99	99	99	99
102	99	99	99	99	99	99	99	99
103	99	99	99	99	99	99	99	99
104	99	99	99	99	99	99	99	99
105	99	99	99	99	99	99	99	99
106	99	99	99	99	99	99	99	99
107	99	99	99	99	99	99	99	99
108	99	99	99	99	99	99	99	99
109	99	99	99	99	99	99	99	99
110	99	99	99	99	99	99	99	99
N	4,368	4,297	4,641	4,420	4,482	4,305	4,443	4,335

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APPENDIX A: STATISTICAL TABLES

Table A1. Weights Assigned on Basis
of Office of Civil Rights Sample

District Enrollment	OCR Sampling Rate	Sample Weight
3,000 or larger	100%	1.00
1,500 - 2,999	75%	1.33
600 - 1,499	50%	2.00
300 - 599	25%	4.00
Less than 300	0%	--

Table A2. Schools Selected by Zip Code, Size, Grade Span, and Percentage of Blacks with Project Sample Weights (N = 633)

	*Grade Span 1					Grade Span 2				
	Percent Black Enrollment					Percent Black Enrollment				
	00-20	21-40	41-60	61-80	81-100	00-20	21-40	41-60	61-80	81-100
<u>Zip Code 0</u>										
Size 1										
Total	13	0	0	0	0		59	1	0	2
Sampled	3	0	0	0	0		3	1	0	2
Weight	4.33	0.00	0.00	0.00	0.00		19.67	1.00	0.00	1.00
Size 2										
Total	29	1	0	0	0		160	4	2	2
Sampled	3	1	0	0	0		3	3	2	2
Weight	9.67	1.00	0.00	0.00	0.00		53.33	1.33	1.00	1.00
Size 3										
Total	121	8	1	1	0		308	18	9	7
Sampled	3	3	1	1	0		3	3	3	3
Weight	40.33	2.67	1.00	1.00	0.00		102.67	6.00	3.00	2.33
<u>Zip Code 1</u>										
Size 1										
Total	13	2	3	1	0		46	7	2	5
Sampled	3	2	3	1	0		3	3	2	3
Weight	4.33	1.00	1.00	1.00	0.00		15.33	2.33	1.00	1.67
Size 2										
Total	80	8	0	1	1		262	6	2	3
Sampled	3	3	0	1	1		3	3	2	3
Weight	26.66	2.67	0.00	1.00	1.00		87.33	2.00	1.00	1.00
Size 3										
Total	205	8	3	1	7		326	52	20	9
Sampled	3	3	3	1	3		3	3	3	3
Weight	68.33	2.67	1.00	1.00	2.33		108.67	17.33	6.67	3.00

Table A2 (Continued)

		Grade Span 1					Grade Span 2				
		Percent Black Enrollment					Percent Black Enrollment				
		00-20	21-40	41-60	61-80	81-100	00-20	21-40	41-60	61-80	81-100
Zip Code 2	Size 1										
	Total	13	10	9	7	3					
	Sampled	3	3	3	3	3	105	23	29	17	18
	Weight	4.33	3.33	3.00	2.33	1.00	3	3	3	3	3
Size 2							35.00	7.67	9.67	5.67	6.00
	Total	54	22	21	10	6	175	58	47	17	15
	Sampled	3	3	3	3	3	3	3	3	3	3
	Weight	18.00	7.33	7.00	3.33	2.00	58.33	19.33	15.67	5.67	5.00
Size 3											
	Total	100	66	24	6	13	149	37	23	12	11
	Sampled	3	3	3	3	3	3	3	3	3	3
	Weight	33.33	22.00	8.00	2.00	4.33	49.67	12.33	7.67	4.00	3.67
Zip Code 3	Size 1										
	Total	11	10	7	4	8	149	44	26	19	26
	Sampled	3	3	3	3	3	3	3	3	3	3
	Weight	3.67	3.33	2.33	1.33	2.67	49.67	14.67	8.67	6.33	8.67
Size 2											
	Total	32	34	31	8	15	146	82	36	20	23
	Sampled	3	3	3	3	3	3	3	3	3	3
	Weight	10.67	11.33	10.33	2.67	5.00	48.67	27.33	12.00	6.67	7.67
Size 3											
	Total	107	37	11	4	11	154	72	33	9	29
	Sampled	3	3	3	3	3	3	3	3	3	3
	Weight	35.67	12.33	3.67	1.33	3.67	51.33	24.00	11.00	3.00	9.67

Table A2 (Continued)

Zip Code	Size 1	Grade Span 1					Grade Span 2				
		Percent Black Enrollment					Percent Black Enrollment				
		00-20	21-40	41-60	61-80	81-100	00-20	21-40	41-60	61-80	81-100
Zip Code 4	Total	22	1	0	0	0					
	Sampled	3	1	0	0	0	267	6	3	4	3
	Weight	7.33	1.00	0.00	0.00	0.00	89.00	2.00	1.00	1.33	1.00
Size 2	Total	78	1	1	2	1					
	Sampled	3	1	1	2	1	459	4	0	1	3
	Weight	26.00	1.00	1.00	1.00	1.00	153.00	1.33	0.00	1.00	1.00
Size 3	Total	200	21	5	5	10					
	Sampled	3	3	3	3	3	342	26	12	8	22
	Weight	66.67	7.00	1.67	1.67	3.33	114.00	8.67	4.00	2.67	7.33
Zip Code 5	Total	48	0	0	0	0					
	Sampled	3	0	0	0	0	275	2	0	0	0
	Weight	16.00	0.00	0.00	0.00	0.00	91.67	1.00	0.00	0.00	0.00
Size 2	Total	73	0	0	0	0					
	Sampled	3	0	0	0	0	155	0	0	0	0
	Weight	24.33	0.00	0.00	0.00	0.00	51.67	0.00	0.00	0.00	0.00
Size 3	Total	141	4	0	0	0					
	Sampled	3	3	0	0	0	78	2	1	1	3
	Weight	47.00	1.33	0.00	0.00	0.00	26.00	1.00	1.00	1.00	1.00

Table A2 (Continued)

		Grade Span 1					Grade Span 2				
		Percent Black Enrollment					Percent Black Enrollment				
		00-20	21-40	41-60	61-80	81-100	00-20	21-40	41-60	61-80	81-100
Zip Code 6											
Size 1											
Total	43	3	1	0	1		328	7	5	2	3
Sampled	3	3	1	0	1		3	3	3	2	3
Weight	14.33	1.00	1.00	0.00	1.00		109.33	2.33	1.67	1.00	1.00
Size 2											
Total	53	0	0	0	2		121	1	2	0	6
Sampled	3	0	0	0	2		3	1	2	0	3
Weight	17.67	0.00	0.00	0.00	1.00		40.33	1.00	1.00	0.00	2.00
Size 3											
Total	98	3	2	0	2		165	15	6	5	28
Sampled	3	3	2	0	2		3	3	3	3	3
Weight	32.67	1.00	1.00	0.00	1.00		55.00	5.00	2.00	1.67	9.33
Zip Code 7											
Size 1											
Total	48	18	12	8	3		244	100	53	20	19
Sampled	3	3	3	3	3		3	3	3	3	3
Weight	16.00	6.00	4.00	2.67	1.00		81.33	33.33	17.67	6.67	6.33
Size 2											
Total	40	19	6	1	4		111	38	21	10	9
Sampled	3	3	3	1	3		3	3	3	3	3
Weight	13.33	6.33	2.00	1.00	1.33		37.00	12.67	7.00	3.33	3.00
Size 3											
Total	117	19	10	5	10		155	38	10	1	19
Sampled	3	3	3	3	3		3	3	3	1	3
Weight	39.00	6.33	3.33	1.67	3.33		51.67	12.67	3.33	1.00	6.33

Table A2 (Continued)

Zip Code	Size 1	Grade Span 1					Grade Span 2				
		Percent Black Enrollment					Percent Black Enrollment				
		00-20	21-40	41-60	61-80	81-100	00-20	21-40	41-60	61-80	81-100
Zip Code 8	Total	22	0	0	0	0	163	1	1	0	0
	Sampled	3	0	0	0	0	3	1	1	0	0
	Weight	7.33	0.00	0.00	0.00	0.00	54.33	1.00	1.00	0.00	0.00
Size 2	Total	54	0	0	0	0	38	1	0	0	0
	Sampled	3	0	0	0	0	3	1	0	0	0
	Weight	18.00	0.00	0.00	0.00	0.00	12.67	1.00	0.00	0.00	0.00
Size 3	Total	94	0	1	1	0	69	2	0	0	0
	Sampled	3	0	1	1	0	3	2	0	0	0
	Weight	31.33	0.00	1.00	1.00	0.00	23.00	1.00	0.00	0.00	0.00
Zip Code 9	Total	44	4	0	1	3	255	8	2	3	3
	Sampled	3	3	0	1	3	3	3	2	3	3
	Weight	14.67	1.33	0.00	1.00	1.00	85.00	2.67	1.00	1.00	1.00
Size 2	Total	52	1	2	0	3	92	0	1	0	0
	Sampled	3	1	2	0	3	3	0	1	0	0
	Weight	17.33	1.00	1.00	0.00	1.00	30.67	0.00	1.00	0.00	0.00
Size 3	Total	218	19	2	3	8	374	9	2	1	2
	Sampled	3	3	2	3	3	3	3	2	1	2
	Weight	72.67	6.33	1.00	1.00	2.67	124.67	3.00	1.00	1.00	1.00

Table A2 (Continued)

		*Grade Span 1					Grade Span 2				
		Percent Black Enrollment					Percent Black Enrollment				
Zip Codes 0-9 (Totals)		00-20	21-40	41-60	61-80	81-100	00-20	21-40	41-60	61-80	81-100
Size 1											
Total	277	48	32	21	18		1891	199	121	72	82
Sampled	30	18	13	11	13		30	25	20	22	24
Size 2											
Total	545	86	61	22	32		1719	194	111	51	61
Sampled	30	15	12	10	16		30	20	16	13	20
Size 3											
Total	1401	185	59	26	61		2120	271	116	53	128
Sampled	30	27	21	18	20		30	28	24	21	26

* Span 1 includes schools with Grades 10 through 12 and Grade 12 only. Span 2 includes Grades 7-12, 8-12 and 9-12 schools. Estimate of students in Grades 9-12 is: 0.353 x total enrollment subtracted from 7-12 grade schools; 0.174 x total enrollment subtracted from 8-12 grade schools.